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☐ 1: Biochem Biophys Res Commun 1992 Feb 28;183(1):350-6 Related Articles, Links

Entrez  
PubMed

## Diversity among the beta subunits of heterotrimeric GTP-binding proteins: characterization of a novel beta-subunit cDNA.

von Weizsacker E, Strathmann MP, Simon MI.

PubMed  
Services

Institut fur Entwicklungsbiologie, Universitat Koln, FRG.

Related  
Resources

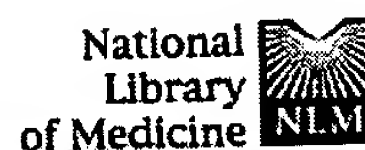
Heterotrimeric guanine nucleotide binding proteins transduce signals from cell surface receptors to intracellular effectors. The alpha subunit is believed to confer receptor and effector specificity on the G protein. This role is reflected in the diversity of genes that encode these subunits. The beta and gamma subunits are thought to have a more passive role in G protein function; biochemical data suggests that beta-gamma dimers are shared among the alpha subunits. However, there is growing evidence for active participation of beta-gamma dimers in some G protein mediated signaling systems. To further investigate this role, we examined the diversity of the beta subunit family in mouse. Using the polymerase chain reaction, we uncovered a new member of this family, G beta 4, which is expressed at widely varying levels in a variety of tissues. The predicted amino acid sequence of G beta 4 is 79% to 89% identical to the three previously known beta subunits. The diversity of beta gene products may be an important corollary to the functional diversity of G proteins.

PMID: 1543505 [PubMed - indexed for MEDLINE]

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• Bruch  
JBC 1987  
264(5) 2401-4



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☐ 1: J Biol Chem 1987 Dec 25;262(36):17254-7

[Related Articles, Links](#)

Entrez  
PubMed

## The G protein beta 2 complementary DNA encodes the beta 35 subunit.

Gao B, Mumby S, Gilman AG.

PubMed  
Services

Department of Pharmacology, Southwestern Graduate School, University of Texas Health Science Center at Dallas 75235.

Antisera were generated against synthetic peptides that correspond to amino acid sequences deduced from a cDNA (designated beta 2) that encodes a second form of the beta subunit of guanine nucleotide-binding regulatory proteins (G proteins). The specificity of interactions of these antisera with purified G protein beta subunits indicates that the beta 2 cDNA encodes the beta 35 form of this polypeptide. This hypothesis is confirmed by the use of these antisera to detect expression of the beta 2 cDNA in COS-m6 cells.

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PMID: 3121593 [PubMed - indexed for MEDLINE]

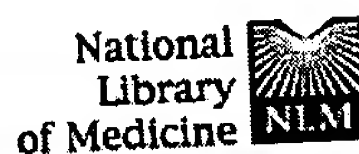
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☐ 1: Cell 1992 Dec 24;71(7):1069-72

Related Articles, Links

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**Receptor-to-effector signaling through G proteins: roles for beta gamma dimers as well as alpha subunits.**

**Birnbaumer L.**

PubMed  
Services

Department of Cell Biology, Baylor College of Medicine, Houston, Texas 77030.

Publication Types:

- Review
- Review, Tutorial

PMID: 1335363 [PubMed - indexed for MEDLINE]

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Resources

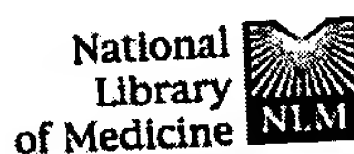
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☐ 1: Science 1991 Dec 6;254(5037):1500-3

Related Articles, Links

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## Type-specific regulation of adenylyl cyclase by G protein beta gamma subunits.

Tang WJ, Gilman AG.

Pharmacology, University of Texas Southwestern Medical Center, Dallas 75235.

PubMed  
Services

Heterotrimeric guanine nucleotide-binding regulatory proteins (G proteins) dissociate into guanosine triphosphate (GTP)-bound alpha subunits and a complex of beta and gamma subunits after interaction with receptors. The GTP-alpha subunit complex activates appropriate effectors, such as adenylyl cyclase, retinal phosphodiesterase, phospholipase C, and ion channels. G protein beta gamma subunits have been found to have regulatory effects on certain types of adenylyl cyclase. In the presence of Gs alpha, the alpha subunit of the G protein that activates adenylyl cyclase, one form of adenylyl cyclase was inhibited by beta gamma, some forms were activated by beta gamma, and some forms were not affected by beta gamma. These interactions suggest mechanisms for communication between distinct signal-transducing pathways.

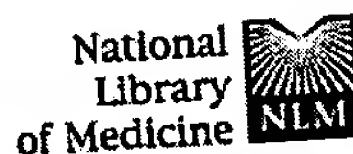
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PMID: 1962211 [PubMed - indexed for MEDLINE]

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1: J Biol Chem 1992 Nov 25;267(33):24023-7

Related Articles, Links

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## Selective tissue distribution of G protein gamma subunits, including a new form of the gamma subunits identified by cDNA cloning.

Cali JJ, Balcueva EA, Rybalkin I, Robishaw JD.

Weis Center for Research, Geisinger Clinic, Danville, Pennsylvania 17822.

PubMed  
Services

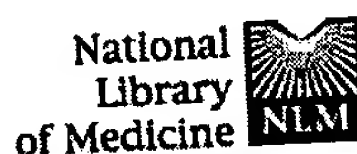
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The GTP-binding regulatory proteins (G proteins) that transduce signals from receptors to effectors are composed of alpha, beta, and gamma subunits. Whereas the role of alpha subunits in directly regulating effector activity is widely accepted, it has recently been demonstrated that beta gamma subunits may also directly regulate effector activity. This has made clear the importance of identifying and characterizing beta and gamma subunits. We have isolated a cDNA clone encoding a new gamma subunit, referred to here as the gamma 7 subunit, using probes based on peptide sequences of a gamma subunit previously purified from bovine brain. The clone contains a 1.47-kilobase cDNA insert, which includes an open reading frame of 204 base pairs that predicts a 68-amino acid polypeptide with a calculated M(r) of 7553. The predicted protein shares amino acid identities with the other known gamma subunits, ranging from 38 to 68%. Also characteristic of gamma subunits is a carboxyl-terminal CAAX motif. The expression of the gamma 7 subunit as well as the gamma 2, gamma 3, and gamma 5 subunits was examined in several bovine tissues at both the mRNA and protein levels. Whereas the gamma 2 and gamma 3 subunits were selectively expressed in brain, the gamma 5 and gamma 7 subunits were expressed in a variety of tissues. Thus, the gamma 5 and gamma 7 subunits are the first G protein gamma subunits known that could participate in the regulation of widely distributed signal transduction pathways.

PMID: 1385432 [PubMed - indexed for MEDLINE]

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☐ 1: Science 1988 Nov 18;242(4881):1047-50

Related Articles, Links

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## A bitter substance induces a rise in intracellular calcium in a subpopulation of rat taste cells.

Akabas MH, Dodd J, Al-Awqati Q.

PubMed  
Services

Department of Medicine, College of Physicians and Surgeons, Columbia University, New York, NY 10032.

Related  
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The sense of taste permits animals to discriminate between foods that are safe and those that are toxic. Because most poisonous plant alkaloids are intensely bitter, bitter taste warns animals of potentially hazardous foods. To investigate the mechanism of bitter taste transduction, a preparation of dissociated rat taste cells was developed that can be studied with techniques designed for single-cell measurements. Denatonium, a very bitter substance, caused a rise in the intracellular calcium concentration due to release from internal stores in a small subpopulation of taste cells. Thus, the transduction of bitter taste may occur via a receptor-second messenger mechanism leading to neurotransmitter release and may not involve depolarization-mediated calcium entry.

PMID: 3194756 [PubMed - indexed for MEDLINE]

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L6: Entry 1 of 34

File: PGPB

Feb 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030040045  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030040045 A1

TITLE: Mammalian sweet taste receptors

PUBLICATION-DATE: February 27, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Zuker, Charles S.	San Diego	CA	US	
Nelson, Gregory A.	San Diego	CA	US	
Chandrashekar, Jayaram	San Diego	CA	US	
Zhang, Yifeng	La Jolla	CA	US	
Ryba, Nicholas J.P.	Bethesda	MD	US	
Hoon, Mark A.	Kensington	MD	US	

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 435/6, 530/350, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWD	Draw Desc	Image
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☐ 2. Document ID: US 20030036630 A1

L6: Entry 2 of 34

File: PGPB

Feb 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030036630  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030036630 A1

TITLE: NUCLEIC ACIDS ENCODING A G-PROTEIN COUPLED RECEPTOR INVOLVED IN SENSORY TRANSDUCTION

PUBLICATION-DATE: February 20, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
ZUKER, CHARLES S.	SAN DIEGO	CA	US	
ADLER, JON E.	PACIFIC BEACH	CA	US	
LINDEMEIER, JUERGEN	WERL	MD	DE	
RYBA, NICK	BETHESDA	MD	US	
HOON, MARK	KENSINGTON		US	

US-CL-CURRENT: 530/350; 435/320.1, 435/325, 435/69.1, 435/7.1, 530/387.9, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 3. Document ID: US 20030022288 A1

L6: Entry 3 of 34

File: PGPB

Jan 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030022288  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030022288 A1

TITLE: Nucleic acids encoding a G-protein coupled receptor involved in sensory transduction

PUBLICATION-DATE: January 30, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Zuker</u> , Charles S.	San Diego	CA	US	
Adler, Jon E.	Pacific Beach	CA	US	
Lindemeier, Juergen	Werl		DE	

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/350, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 4. Document ID: US 20030022278 A1

L6: Entry 4 of 34

File: PGPB

Jan 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030022278  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030022278 A1

TITLE: T2R, a novel family of taste receptors

PUBLICATION-DATE: January 30, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Zuker</u> , Charles S.	San Diego	CA	US	
Adler, Jon Elliot	Washington	DC	US	
Ryba, Nick	Bethesda	MD	US	
Mueller, Ken	San Diego	CA	US	

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 435/7.1, 530/389.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc	Image
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☐ 5. Document ID: US 20020168635 A1

L6: Entry 5 of 34

File: PGPB

Nov 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020168635  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020168635 A1



TITLE: NUCLEIC ACIDS ENCODING PROTEINS INVOLVED IN SENSORY TRANSDUCTION

PUBLICATION-DATE: November 14, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
ZUKER, CHARLES S.	SAN DIEGO	CA	US	
ADLER, JON E.	WASHINGTON	DC	US	
LINDEMEIER, JUERGEN	WERL	CA	DE	
COWAN, DAVID	PACIFIC BEACH		US	

US-CL-CURRENT: 435/6; 435/5, 435/91.1, 435/91.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 6. Document ID: US 20020164645 A1

L6: Entry 6 of 34

File: PGPB

Nov 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020164645

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020164645 A1

TITLE: Assays for taste receptor cell specific ion channel

PUBLICATION-DATE: November 7, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Zuker, Charles S.	San Diego	CA	US	
Zhang, Yifeng	La Jolla	CA	US	

US-CL-CURRENT: 435/7.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMCD	Draw Desc	Image
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☐ 7. Document ID: US 20020119526 A1

L6: Entry 7 of 34

File: PGPB

Aug 29, 2002

PGPUB-DOCUMENT-NUMBER: 20020119526

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020119526 A1

TITLE: Nucleic acids encoding a G-protein coupled receptor involved in sensory transduction

PUBLICATION-DATE: August 29, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Zuker, Charles S.	San Diego	CA	US	
Adler, Jon E.	Pacific Beach	CA	US	
Lindemeier, Juergen	Werl		DE	

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/350, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 8. Document ID: US 20020051997 A1

L6: Entry 8 of 34

File: PGPB

May 2, 2002

PGPUB-DOCUMENT-NUMBER: 20020051997  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020051997 A1

TITLE: SF, A NOVEL FAMILY OF TASTE RECEPTORS

PUBLICATION-DATE: May 2, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
ZUKER, CHARLES S.	SAN DIEGO	CA	US	
ADLER, JON ELLIOT	WASHINGTON	DC	US	
RYBA, NICK	BETHESDA	MD	US	
MUELLER, KEN	SAN DIEGO	CA	US	

US-CL-CURRENT: 435/7.1; 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMIC	Draw Desc	Image
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☐ 9. Document ID: US 6537778 B1

L6: Entry 9 of 34

File: USPT

Mar 25, 2003

US-PAT-NO: 6537778  
DOCUMENT-IDENTIFIER: US 6537778 B1

TITLE: Eukaryotic mechanosensory transduction channel

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMIC	Draw Desc	Image
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☐ 10. Document ID: US 6383778 B1

L6: Entry 10 of 34

File: USPT

May 7, 2002

US-PAT-NO: 6383778  
DOCUMENT-IDENTIFIER: US 6383778 B1

TITLE: Nucleic acids encoding a G-protein coupled receptor involved in sensory transduction

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMIC	Draw Desc	Image
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☐ 11. Document ID: US 6004808 A

L6: Entry 11 of 34

File: USPT

Dec 21, 1999

US-PAT-NO: 6004808

DOCUMENT-IDENTIFIER: US 6004808 A

TITLE: Promiscuous G-protein compositions and their use

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMOC	Draw Desc	Image
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☐ 12. Document ID: US 4209288 A

L6: Entry 12 of 34

File: USPT

Jun 24, 1980

US-PAT-NO: 4209288

DOCUMENT-IDENTIFIER: US 4209288 A

TITLE: Frozen confection producing system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMOC	Draw Desc	Image
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☐ 13. Document ID: WO 2054069 A1

L6: Entry 13 of 34

File: EPAB

Jul 11, 2002

PUB-NO: WO002054069A1

DOCUMENT-IDENTIFIER: WO 2054069 A1

TITLE: ASSAYS FOR TASTE RECEPTOR CELL SPECIFIC ION CHANNEL

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMOC	Draw Desc	Image
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☐ 14. Document ID: WO 9906830 A1

L6: Entry 14 of 34

File: EPAB

Feb 11, 1999

PUB-NO: WO009906830A1

DOCUMENT-IDENTIFIER: WO 9906830 A1

TITLE: METHOD FOR MODULATING G-PROTEIN COUPLED RECEPTORS

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMOC	Draw Desc	Image
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☐ 15. Document ID: WO 9903974 A1

L6: Entry 15 of 34

File: EPAB

Jan 28, 1999

PUB-NO: WO009903974A1

DOCUMENT-IDENTIFIER: WO 9903974 A1

TITLE: COMPOSITIONS AND METHODS FOR IDENTIFYING MODULATORS OF TRANSDUCISOMES, A NEW CLASS OF THERAPEUTIC TARGETS

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 16. Document ID: WO 9748820 A1

L6: Entry 16 of 34

File: EPAB

Dec 24, 1997

PUB-NO: WO009748820A1

DOCUMENT-IDENTIFIER: WO 9748820 A1

TITLE: PROMISCUOUS G-PROTEIN COMPOSITIONS AND THEIR USE

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 17. Document ID: US 20020164645 A1 WO 200254069 A1

L6: Entry 17 of 34

File: DWPI

Nov 7, 2002

DERWENT-ACC-NO: 2002-583632

DERWENT-WEEK: 200275

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TITLE: Identifying modulators of taste signaling in taste cells for use in food and pharmaceutical industries to customize and regulate taste, by determining effect of the compound on a taste cell-specific ion channel subunit

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMOC	Draw Desc	Image
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☐ 18. Document ID: WO 200213673 A2 AU 200180070 A

L6: Entry 18 of 34

File: DWPI

Feb 21, 2002

DERWENT-ACC-NO: 2002-329516

DERWENT-WEEK: 200245

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TITLE: Electrostimulation system for use in electrotherapy, includes electromyographic and visual biofeedback for the patient

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 19. Document ID: WO 200118020 A1 AU 200065101 A

L6: Entry 19 of 34

File: DWPI

Mar 15, 2001

DERWENT-ACC-NO: 2001-244556

DERWENT-WEEK: 200137

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TITLE: New isolated eukaryotic mechanosensory transduction protein useful as probes for sensory cells in animals and to diagnose and treat human conditions involving loss of mechanosensory transduction

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 20. Document ID: WO 200118050 A2 EP 1214343 A2 AU 200073664 A US 20020051997 A1 NO 200201164 A

L6: Entry 20 of 34

File: DWPI

Mar 15, 2001



DERWENT-ACC-NO: 2001-211396  
DERWENT-WEEK: 200240  
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TITLE: Nucleic acids encoding the T2R family of G-protein coupled taste receptors, useful for identifying taste modulators that can be used in food and pharmaceutical industries to customize taste, for e.g. to decrease the bitter taste of food

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 21. Document ID: WO 200050613 A2 AU 200026870 A

L6: Entry 21 of 34

File: DWPI

Aug 31, 2000

DERWENT-ACC-NO: 2000-549412  
DERWENT-WEEK: 200050  
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TITLE: Methods for transforming carnation plants with exogenous sense and antisense DNA molecules to modulate their phenotype, especially their fragrance

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 22. Document ID: WO 200045179 A2 AU 200029760 A

L6: Entry 22 of 34

File: DWPI

Aug 3, 2000

DERWENT-ACC-NO: 2000-499361  
DERWENT-WEEK: 200044  
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TITLE: Identifying a compound that modulates sensory signaling in sensory cells for use in pharmaceutical and food industries comprises contacting the compound with a sensory cell specific G-protein beta polypeptide

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 23. Document ID: WO 200044929 A2 AU 200029759 A

L6: Entry 23 of 34

File: DWPI

Aug 3, 2000

DERWENT-ACC-NO: 2000-499336  
DERWENT-WEEK: 200044  
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TITLE: Assaying for compounds that modulate sensory signaling in taste cells, by determining interactions between the compounds and a sensory cell specific G-protein alpha subunit polypeptide

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☐ 24. Document ID: MX 2001003258 A1 WO 200018788 A1 AU 9962770 A EP 1117674 A1 BR 9914090 A CN 1321164 A KR 2001085868 A

L6: Entry 24 of 34

File: DWPI

Oct 1, 2001

DERWENT-ACC-NO: 2000-303437  
DERWENT-WEEK: 200274  
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TITLE: Novel sensory cell specific G protein gamma subunit polynucleotides and polypeptides which are involved in sensory transduction and used to screened for modulators

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 25. Document ID: AU 753703 B WO 200006592 A1 AU 9952381 A EP 1100810 A1 NO 200100363 A BR 9912545 A ZA 200100401 A CN 1317010 A KR 2001085306 A MX 2001000898 A1 JP 2002521049 W

L6: Entry 25 of 34

File: DWPI

Oct 24, 2002

DERWENT-ACC-NO: 2000-205451  
DERWENT-WEEK: 200277  
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TITLE: New isolated sensory transduction G-protein coupled receptor, useful for developing products for use in studying and modulating the taste transduction pathway

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------

KIMC	Draw Desc	Image
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☐ 26. Document ID: JP 2002521050 W WO 200006593 A1 AU 9953241 A EP 1100811 A1 NO 200100320 A BR 9912437 A ZA 200100399 A CN 1318068 A KR 2001085307 A MX 2001000902 A1 US 6383778 B1 US 20020119526 A1

L6: Entry 26 of 34

File: DWPI

Jul 16, 2002

DERWENT-ACC-NO: 2000-195257  
DERWENT-WEEK: 200261  
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TITLE: New isolated sensory transduction G-protein coupled receptor, useful for developing products for use in studying and modulating the taste transduction pathway and for generating taste topographic maps

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------

KIMC	Draw Desc	Image
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☐ 27. Document ID: US 20020168635 A1 WO 200006719 A1 AU 9953239 A BR 9912455 A EP 1100893 A1 NO 200100362 A CN 1317044 A KR 2001085308 A MX 2001000899 A1 JP 2002522030 W

L6: Entry 27 of 34

File: DWPI

Nov 14, 2002

DERWENT-ACC-NO: 2000-183123  
DERWENT-WEEK: 200277  
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TITLE: Novel sensory cell specific polypeptide, useful for identifying taste modulating compounds, e.g. for reducing bitterness

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------

KMOC	Draw Desc	Image
------	-----------	-------

- ☐ 28. Document ID: WO 9967499 A1 US 6012529 A NO 200101511 A

L6: Entry 28 of 34

File: DWPI

Dec 29, 1999

DERWENT-ACC-NO: 2000-106322

DERWENT-WEEK: 200009

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TITLE: Downhole guide member for guiding multiple casing strings downhole and maintaining strings in fixed, etc.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------

KMOC	Draw Desc	Clip Img	Image
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- ☐ 29. Document ID: WO 9906830 A1 AU 9886690 A

L6: Entry 29 of 34

File: DWPI

Feb 11, 1999

DERWENT-ACC-NO: 1999-190005

DERWENT-WEEK: 199916

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TITLE: Screening for modulators of G-protein-coupled receptor signal transduction - by determining the activity of an RDGC phosphatase, a protein that has phosphatase activity for G-protein-coupled receptors

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------

KMOC	Draw Desc	Image
------	-----------	-------

- ☐ 30. Document ID: WO 9903974 A1 AU 9884059 A

L6: Entry 30 of 34

File: DWPI

Jan 28, 1999

DERWENT-ACC-NO: 1999-132222

DERWENT-WEEK: 199911

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TITLE: Identifying modulators of signal transduction in cells - used to treat signal transduction related disorders

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------

KMOC	Draw Desc	Image
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- ☐ 31. Document ID: WO 9748820 A1 AU 9735728 A US 6004808 A EP 1012324 A1

L6: Entry 31 of 34

File: DWPI

Dec 24, 1997

DERWENT-ACC-NO: 1998-063158

DERWENT-WEEK: 199806

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TITLE: Stable cells containing sequence encoding promiscuous G-alpha protein - useful to identify G-protein coupled receptors or ligands, and agonists or antagonists of signal transduction in cells

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------

KIMC	Draw Desc	Clip Img	Image
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☐ 32. Document ID: US 4600178 A

Jul 15, 1986

L6: Entry 32 of 34

File: DWPI

DERWENT-ACC-NO: 1986-204077

DERWENT-WEEK: 198631

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TITLE: Method of protecting roadway maintenance site - has crash cushion suspended below carrier vehicle which lowers it onto road as required

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------

KIMC	Draw Desc	Image
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☐ 33. Document ID: US 4209288 A

Jun 24, 1980

L6: Entry 33 of 34

File: DWPI

DERWENT-ACC-NO: 1980-49558C

DERWENT-WEEK: 198028

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TITLE: Apparatus producing frozen confection on stick - where sticks are inserted after formation of frozen crust

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------

KIMC	Draw Desc	Image
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☐ 34. Document ID: GB 2026571 A AT 7904732 A CA 1103968 A DE 2833452 A DE 2833452 C DK 7903177 A FR 2433613 A GB 2026571 B IT 1122187 B NL 7905703 A SE 7906280 A SU 931113 A

Feb 6, 1980

L6: Entry 34 of 34

File: DWPI

DERWENT-ACC-NO: 1980-09856C

DERWENT-WEEK: 198006

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TITLE: Packaging paper mfr. from waste paper - using sizing agent derived from cereals

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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Generate Collection

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Terms	Documents
Zuker.in.	34

Display Format:

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Change Format



[Previous Page](#)

[Next Page](#)

Gencore version 4.5  
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 28, 2001, 10:28:49 ; Search time 25.94 seconds  
(without alignments)  
998.433 Million cell updates/sec

Title: US-09-492-029-3  
Perfect score: 1809  
Sequence: 1 MGEMEQLKQAEQKQIAD.....TADGMAVATGWSDFLKIWN 340

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 219241 seqs, 76174552 residues  
219241

Total number of hits satisfying chosen parameters:  
Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : PIR\_68:\*  
1: p1r1:\*  
2: p1r2:\*  
3: p1r3:\*  
4: p1r4:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1809	100.0	340	153871	G-protein beta-sub
2	1762	97.4	340	1 RGHUB3	GTP-binding regula
3	1573	87.0	340	1 RGHUB1	GTP-binding regula
4	1573	87.0	340	1 RGHOB1	GTP-binding regula
5	1573	87.0	340	1 JG5057	G protein beta 1 -
6	1523	84.2	340	1 RGHUB2	GTP-binding regula
7	1520	84.0	340	1 T20830	hypothetical prote
8	1515	83.7	340	1 RGMWB	GTP-binding regula
9	1493	82.5	340	1 RGMWB4	GTP-binding regula
10	1482	81.9	341	1 S34348	GTP-binding regula
11	1467	81.1	326	1 RGHOB2	GTP-binding regula
12	1467	81.1	341	1 RGOBE	GTP-binding regula
13	1452	80.3	340	1 RGFEBH	GTP-binding regula
14	1225	67.7	347	2 A47370	beta-5 GTP-binding
15	945.5	52.3	353	2 A54969	hypothetical prote
16	939.5	51.9	356	2 T22478	GTP-binding regula
17	844	46.7	380	2 T03765	GTP-binding protei
18	828	45.8	380	2 T02085	GTP-binding protei
19	827	45.7	377	2 T07376	G-protein beta cha
20	826	45.7	346	1 RGFEB	GTP-binding regula
21	826	45.7	375	1 T03256	GTP-binding protei
22	826	45.7	377	2 T04086	GTP-binding protei
23	825	45.6	377	2 T05266	GTP-binding regula
24	817	45.2	380	2 T08036	GTP-binding regula
25	794	43.9	377	2 T16985	GTP-binding protei
26	792	43.8	377	2 T17256	hypothetical prote
27	739.5	40.9	317	2 S72457	GTP-binding regula
28	664	36.7	317	2 T50474	GTP-binding regula
29	663	36.7	305	2	

30	635	35.1	423	2	S60939	GTP-binding protei
31	601	33.2	123	2	S29121	GTP-binding regula
32	592.5	32.8	240	2	T02059	GTP-binding regula
33	383.5	21.2	1356	2	T18521	beta transducin-1i
34	310	17.1	1049	2	T42045	probable WD-repeat
35	308	17.0	333	2	G85034	u4/u6 snRNP 52k pr
36	305.5	16.9	465	2	A32569	trp-asp repeat con
37	305	16.9	502	2	T41148	GTP-binding protei
38	297.5	16.4	317	2	A33928	GTP-binding protei
39	297.5	16.4	317	2	B33928	GTP-binding regula
40	297.5	16.4	317	2	S45054	GTP-binding regula
41	297.5	16.4	317	2	S38398	GTP-binding regula
42	297.5	16.4	317	2	A36986	activated protein
43	295.5	16.3	586	2	T38992	WD-40 repeat regul
44	295	16.3	704	2	S33263	transcription init
45	294	16.3	554	2	T02445	probable u4/u6 sma

ALIGNMENTS

RESULT 1  
153871  
G-protein beta-subunit - rat  
C:Species: Rattus norvegicus (Norway rat)  
C:Date: 29-May-1998 #sequence\_revision 29-May-1998 #text\_change 21-Jan-2000  
C:Accession: I53871  
R:Ray, K.; Robishaw, J.D.  
Gene 149, 337-340, 1994  
A:Title: Cloning and sequencing of a rat heart cDNA encoding a G-protein beta subunit  
A:Reference number: I53871; MUID:95047499  
A:Accession: I53871  
A:Status: preliminary; translated from GB/EMBL/DBJ  
A:Molecule type: DNA  
A:Residues: 1-340 <RES>  
A:Cross-references: GB:L29090; NID:9456703; PIDN:AAA62620.1; PID:9456704  
C:Superfamily: GTP-binding regulatory protein beta chain; WD repeat homology  
F:222-255/Domain: WD repeat homology <WDR>

Query Match 100.0%; Score 1809; DB 2; Length 340;  
Best Local Similarity 100.0%; Pred. No. 2.2e-142; Indels 0; Gaps 0;  
Matches 340; Conservative 0; Mismatches 0

QY	1	MGEMEQLKQAEQKQIADARKACADITLAEVSGLEVGRVQMRTRTLRGLAKIYA	60
DB	1	MGEMEQLKQAEQKQIADARKACADITLAEVSGLEVGRVQMRTRTLRGLAKIYA	60
QY	61	MHWATDSKLVASASODGKLIWDYTTNKVHAIPLRSSWVTCAYAPSGNFVACGLDM	120
DB	61	MHWATDSKLVASASODGKLIWDYTTNKVHAIPLRSSWVTCAYAPSGNFVACGLDM	120
QY	121	CSISLSKRSRGVNVKVSRELTAHTGYLSGCRFLDNNIVTSSGDTTCALMDIETGQKTVF	180
DB	121	CSISLSKRSRGVNVKVSRELTAHTGYLSGCRFLDNNIVTSSGDTTCALMDIETGQKTVF	180
QY	181	VGHTGDCMSLAVSPDYKLFISGACDASAKLMDVREGTCROTFTGHESDINAIICFPNGEA	240
DB	181	VGHTGDCMSLAVSPDYKLFISGACDASAKLMDVREGTCROTFTGHESDINAIICFPNGEA	240
QY	241	ICTGSDASCRLFDLRADQELTAYSHESITIGITSVAFSLGRLFPAGYDDFNCNVWDSL	300
DB	241	ICTGSDASCRLFDLRADQELTAYSHESITIGITSVAFSLGRLFPAGYDDFNCNVWDSL	300
QY	301	KCERVGLSGHNDNRVSCGLVTADGMAVATGWSDFLKIWN	340
DB	301	KCERVGLSGHNDNRVSCGLVTADGMAVATGWSDFLKIWN	340

RESULT 2  
RGHUB3  
GTP-binding regulatory protein beta-3 chain - human  
N:Alternate names: guanine nucleotide binding protein beta-3 chain; heterotrimeric G-

A;Cross-references: GB:X04526; NID:g31667; PIDN:CAA28207.1; PID:g31669  
A;Experimental source: liver  
A;Note: the authors translated the codon GAG for residues 138 and 172 as Gln  
C;Comment: The G proteins are a family of guanine nucleotide-binding proteins that r  
ains. The beta and gamma chains, required for GTPase activity, appear to be common t  
rase; it is specific for each type of G protein.  
C;Comment: In mammals, four distinct types of beta chains have been found.  
C;Genetics:  
A;Gene: GDB:GNB1  
A;Cross-references: GDB:119279; OMIM:139380  
A;Map position: 1p36-1p31.2  
C;Superfamily: GTP-binding regulatory protein beta chain; WD repeat homology  
C;Keywords: GTP binding; heterotrimer; signal transduction  
F;51-84/Domain: WD repeat homology <WD1>  
F;88-126/Domain: WD repeat homology <WD2>  
F;139-171/Domain: WD repeat homology <WD3>  
F;180-213/Domain: WD repeat homology <WD4>  
F;222-255/Domain: WD repeat homology <WD5>  
F;263-299/Domain: WD repeat homology <WD6>  
F;308-340/Domain: WD repeat homology <WD7>

Query Match	87.08;	Score 1573;	DB 1;	Length 340;
Best Local Similarity	83.28;	Pred. No. 7.9e-123;		
Matches 283;	Conservative 31;	Mismatches 26;	Indels 0;	Gaps 0;

QY	1	MGEMLKQAEQLKKQIADARKACADITLAEVLSGLEVVGRVMQRTTRTLGLHLAKIYA	60
QY	1	:::  :        :        :::   :        :        :	
Dd	1	MSELDJLRQAEQLKNQIRDARKACADATLSQITNNIDPVGRIQMRTTRTLGLHLAKIYA	60
QY	61	MHWATDCKLLVASQDGKLIWMDITYTNKVHAIPLRSSWMVTCAYPASGNFVACGGLDNM	120
QY	61	:    :    :    :    :    :    :    :    :    :    :	
Dd	61	MHWGTSRLLVSASQDGKLIWDSYTINKVHAIPLRSSWMVTCAYPASGNIVACGGLDNI	120
QY	121	CSITSLSREGNVKVSRELSAHTGYLSCCRFLDDNNIVTSSGDITCALMDIETGOOKTFE	180
QY	121	:    :    :    :    :    :    :    :    :    :    :	
Dd	121	CSIYNLKTREGNVRVSRSLAGHTGYLSCCRFLDDNQIVTSSGDITCALMDIETGOOTTFE	180
QY	181	VGHTEGDCMSLAVSPDYKLFISGACDASAKIMDVREGTCROTFTGHESHDINAI CFFPNGEA	240
QY	181	:    :    :    :    :    :    :    :    :    :    :	
Dd	181	TGHTGDVMSLSLAPDTRLFPVSGACDASAKIMDVREGMCROTFTGHESHDINAI CFFPNENA	240
QY	241	ICTGSDDASCRLFDLRADOELTAYSHESIICGITSVAFSLSGRLLFAGYDDFCNCNWDSL	300
QY	241	:    :    :    :    :    :    :    :    :    :    :	
Dd	241	FATGSDDATCRLFDLRADOELMTYSHDNTICGITSVSFSKSGRLLLAGYDDFCNCNWDAL	300
QY	301	KCEKRVGLSGHDNRVSCLGVTADGMAVAATGSWDSFLKIWN	340
QY	301	:: :    :    :    :    :    :    :    :    :    :    :	
Dd	301	KABRAGVLGHDNRVSCLGVTDDGMAVAATGSWDSFLKIWN	340

RESULT 4  
RGBOB1  
GTP-binding regulatory protein beta-1 chain - bovine  
N/Alternate names: guanine nucleotide binding protein beta-1 chain; heterotrimeric G  
C/Species: Bos primigenius taurus (cattle)  
C/Date: 31-Dec-1992 #sequence\_revision 31-Dec-1992 #text\_change 22-Jun-1999  
C/Accession: A24225; A25457  
R/Sugimoto, K.; Nukada, T.; Tanabe, T.; Takahashi, H.; Noda, M.; Minamino, N.; Kangai  
FEBS Lett. 191, 235-240, 1985  
A/Title: Primary structure of the beta-subunit of bovine transducin deduced from the  
A/Reference number: A24225; MUID:86030675  
A/Accession: A24225  
A/Molecule type: mRNA  
A/Residues: 1-340 <SUG>  
A/Cross-References: GB:X03073  
R/Fong, H.K.W.; Hurley, J.B.; Hopkins, R.S.; Maize-Lye, R.; Johnson, M.S.; Doolittle  
Proc. Natl. Acad. Sci. U.S.A. 83, 2162-2166, 1986  
A/Title: Repetitive segmental structure of the transducin beta subunit: homology wit  
A/Reference number: A25457; MUID:86177563  
A/Accession: A25457  
A/Molecule type: mRNA  
A/Residues: 1-340 <FON>